

2870 Lloyd Street
San Diego, CA 921

January 16 1993 93JAN25 PM 1:46

Senator the Honorable Dianne Feinstein
United States Senate,
Washington, DC 20510

Dear Senator Feinstein:

We the undersigned, being users of radio controlled model aircraft are but a small number of the many thousands involved in this sport, would like to inform you of the following.

A few year's ago the Federal Communications Commission (FCC) allocated a group of radio frequencies to be used specifically for model aircraft use only. Specific frequencies are essential for this purpose to prevent cross interference which can cause loss of expensive equipment, including third-party property damage, possible injury or death.

The FCC are now proposing under Proposed Rule Changes (NPRM-PR Docket 92-235) allocating new frequencies for general use. Some of these frequencies would be dangerously close to some model aircraft frequencies and would cause dangerous interference.

Most modelers have invested considerable sums of money and time into their equipment and do not wish to see it invalidated.

The purpose of this letter is to request your help in persuading the FCC not to encroach on the model aircraft frequencies. Some urgency is required in this request, as the FCC deadline for comments is February 26, 1993.

Your consideration of this request will be appreciated.

Sincerely, *Lawrence H. Warden.*

Russell H. Egbert

Raymond J. Menezes

L. A. Johnson

Mark A. Stith

Harry E. Moore

LHW:mjw

Paul Babash

Walter Curcio

Leslie O. Hood

Frank D. Hughes

CENTURY

IMPORT & EXPORT

JAN 25 PM 12:22

WORLD CLASS R/C HELICOPTERS & ACCESSORIES

THE HONORABLE DIANE FEINSTEIN

U.S. SENATOR WASHINGTON D.C. 20510

1-20-93

DEAR SENATOR DIANE FEINSTEIN:

I am a hobby retailer who sells many radios, radio-controlled models and related products in my store. In addition, I sell train products, plastic model kits and other related hobby products.

It has recently come to my attention that the Federal Communications Commission (FCC) is considering an action that has the potential to destroy my business and that of thousands of other retailers nationwide like me. The proceeding is PR Docket 92-235. If adopted the new rule will greatly reduce the usability of frequencies currently assigned for R/C model use and increase the risk of accidents and attendant liability.

Our radio-control frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio-control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

The Notice of Proposed Rule Making (NPRM) in PR Docket 92-235 replaces Part 90 of the rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band (for R/C aircraft) and 10 of the 20 frequencies on the 75 MHz band (for R/C cars and boats) now used by hobbyists. In fact

January 19, 1993

The Honorable Diane Feinstein
United States Senate
Washington, D.C. 20554

93 JAN 25 PM 12:29

Dear Senator,

I am writing you to express my concern and to solicit your support in ensuring the correct handling of a proposed FCC rule change. The changes in NPRM PR DOCKET 92-235 should be denied at this time.

Although the proposed change is quite technical, it would allow insertion of high power broadcast transmissions between frequencies currently allocated to radio controlled model hobbyists with only 2.5 KHz separation from them. The effect would be to eliminate an entire hobby, the industry supporting it, and the many jobs associated with it because the new transmissions would overwhelm existing users and render their equipment useless.

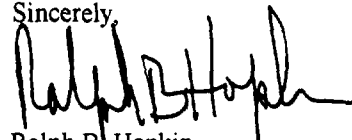
There are hundreds of thousands of hobbyists using these frequencies who have invested hundreds millions of dollars in their equipment. Worse than this is the fact that it will force thousands of small businesses such as hobby shops, manufacturers of aircraft, car, and boat kits, and all the accessory parts and materials out of business. This is not an exaggeration. We are speaking of an entire industry involving thousands of jobs in small manufacturing companies, retail outlets and electronic repair businesses.

I am not opposed to technological progress. I am, however, against technological progress at the expense of an entire segment of society. I believe there is a solution. The docket should not be approved until technology has been developed that will allow interference-free transmissions which do not have an adverse effect upon existing users.

You will certainly hear arguments by industry leaders such as General electric and Motorola that this cannot be done. This has been said of every proposal from CAFE standards to toxic emissions; industry always solves the problem.

As to who should pay for the development costs, the answer is obvious. Those who benefit most, GE, Motorola, and the telephone companies. I trust that you will give this your earnest attention in the next few days, as the FCC has imposed a deadline of February 26, 1993 on comments. Thank you for your attention to this important matter.

Sincerely,



Ralph B Hopkin

93 JAN 25 PM 4:16

Date: 1-22-93

The Honorable Diane Feinstein
U. S. Senate Office Bldg.
Washington, DC 20510

Dear Senator Feinstein,

I am very active in a local club whose members enjoy constructing and operating radio-controlled model airplanes. I personally own 7 radios, 10 R/C models and have a workshop full of other products necessary to operating my models.

I am very concerned about the proposed rule that is currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted the new rule will greatly reduce the usability of frequencies currently assigned for R/C model use and increase the risk of accidents and attendant liability.

Our radio-control frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio-control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

The Notice of Proposed Rule Making (NPRM) in **PR Docket 92-235** replaces Part 90 of the rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band (for R/C aircraft) and 10 of the 30 frequencies on the 75 MHz band (for R/C cars and boats) now used by hobbyists. In fact, more channels will likely be affected.

When we operate our R/C models, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

I don't think it is wise of the FCC to seek to expand the operation conditions of land mobile radio users at the expense of the radio-control modelers. The FCC may not think we are as important as business users of radio, but we have a considerable investment in our models and in our radio equipment. It is a sizeable industry that must be saved from these detrimental FCC actions. The hobby provides many hours of enjoyment to hundreds of thousands of people like myself and contributes to the advancement and development of the commercial aviation industry.

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposal PR Docket 92-235 for the 72-76 MHz band. We all need your help urgently because the FCC has a deadline of February 26, 1993 after which it may become more difficult to avoid halting these proposals from going into effect.

Sincerely,

Robert A. Gohm
467 Monterey Pk
Oyster Ca 95003

To the Honorable Diane Finestien
United States Senate
Washington, DC 20510

1/15/93

I wish to bring an issue to your attention. The issue is FCC NPRM - PR Docket 92-235. This NPRM (Notice of Proposed Rule Making) was sent only to the group of RF (Radio Frequency) spectrum users known as the "Land Mobile" users and was not sent to the national organization that represents approx. 300,000 radio control enthusiasts that use the frequency this NPRM effects. That organization is the Academy of Model Aeronautics or the AMA at 1810 Samuel Morse Dr. Reston, Va 22090, phone 1-703-435-0750.

The AMA represents about 250,000 of the approx. 350,000 hobbyists that use these frequencies at present, and speaks to the FCC in behalf of all RC users.

I (we) use radio control modeling as an enjoyable sport and hobby, this sport/hobby is supported by many manufactures (both of radios and related supplies). These manufactures make a tax paying living supporting this activity. These manufactures support another approx. 50,000 paid workers (who are taxpayers and voters). The hobby is international in nature, the effect of this proposed new FCC rule would soon destroy the hobby /business of radio control, and we would look quite foolish in international eyes.

There is also a public SAFETY ISSUE which must be addressed

93 JAN 22 AM 10:28

As a result of this negotiation with the FCC we have upgraded and replaced thousands of

93 JAN 22 AM 10:39

18JAN93

1654 KAMSACK DR.
SUNNYVALE, CA 94087

The Honorable DIANE FEINSTEINE
United States Senate
Washington, DC 20510

RE: FEDERAL COMMUNICATIONS COMMISSION -- NPRM - PR Docket 92-235

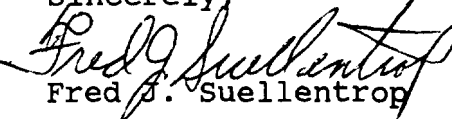
GREETINGS:

I must urge you to help us protest any tampering with the frequency bands set for radio control of model aircraft. Specific channels were set for model aircraft control in the 72 & 75 MHz bands and we complied by converting all of our equipment to a narrow band operation, in 1991. All manufacturers and modelers converted our equipment to narrow band operation to preserve the safety of our operation.

A typical radio controlled model aircraft can weigh between 5 and 35 pounds and travel between 20 and 120 miles per hour. These must remain under total control at all times of operation for the **SAFETY of flyers and their spectators.** We do this by radio control, which **MUST REMAIN INTERFERENCE FREE.** This is why **our assigned frequencies must remain free from additional assignments.** The Referenced Proposal would place additional radio assignments in our bands of operation and would place interferers 2.5 kHz away from many of our 72 and 75 MHz frequencies.

I must, as one of hundreds of thousands of model aircraft flyers in this country, **urge your help** to prevent this proposal **NPRM PR Docket 92-235** from being implemented.

Sincerely,


Fred J. Suellentrop

93 JAN 21 AM 10:51

7260 Lubao Ave
Canoga Pk, CA 91306
January 19, 1993

The Honorable Dianne Feinstein
United States Senate
Washington, DC 20510

Dear Senator Feinstein,

I strongly recommend that you vote "NO" on the FCC Notice of Rule Making NPRM PR Docket 92-235.

The Proposal, if approved will make model flying unsafe, it will adversely affect hundreds of thousands of people, and the model building industry will cease to exist in favor of the Mobile Land Service.

Thank you in advance.

Very Truly Yours,



Joseph V. Guzzardi

cc: Federal Communications Commission

Richard C. McCaskill

COMMUNICATIONS CONSULTANT

The Honorable Dianne Feinstein
Senate Office Building
Washington, D.C. 20510

93 JAN 21 PM 12:16

Dear Ms. Feinstein,

It has come to my attention that the FCC is considering a change in the frequency allocation for private usage. The Proposed Rule Marking is **NPRM PR Docket 92-2135**.

I am writing to you requesting your support in the defeat of this proposal. I am an RC Modeler that fly radio control airplanes. The reason I am requesting your support is that the proposed change will insert new frequencies very close to the current frequencies that the RC Model industry presently use. The new frequencies will also have higher power than the RC Model frequencies and the frequency will be modifiable, thus the chances that the new frequencies will interfere with the RC Model frequencies is high.

You may ask why the concern, first of all if we are flying a radio controlled powered airplane and if someone with the new frequency channel radio is near by, the model will be uncontrollable due to radio interference. This most likely will cause the plane to crash. The RC models we fly are not toys, with most planes having a powered engine fly at speeds of 50 to 150 mph. An object that is not under control at those speeds hitting a person would have a good chance of killing a person, if hit, or causing serious injury. Second, the cost of most of our planes are from \$500 to \$3000. Lastly, there are over 3 million RC pilots in the United States that would be effected by this new rule change.

I would appreciate your support in the defeat of this proposed rule change by the FCC.

Sincerely,



Richard C. McCaskill

Communication

ALMANOR FOREST PRODUCTS



January 15, 1993

93 JAN 21 PM 12:03

To: The Honorable Diane Feinstein
United States Senate
Hart Senate Office Building
Washington, DC 20510

From: Ron Fikes
4074 Solana Drive
Palo Alto, CA 94306
AMA #464213

RE: FCC issuance of NPRM - PR Docket 92-235

I wish to bring this issue to your attention and ask for your help.

Many thousands of us use radio control modeling as an enjoyable sport and hobby, many manufacturers (both of radios and those of related supplies) make a taxpaying living supporting this activity and more importantly, there is a SAFETY ISSUE which must be addressed.

NPRM - PR Docket 92-235 proposes (through Part 88 of the Code of Federal Regulations) to give license to two new frequencies BETWEEN each of our frequencies!

The Academy of Model Aeronautics has worked closely with the FCC in establishing model aircraft radio frequencies (now 50 in number), spacing them so as to allow as many as possible for our use and at the same time MAINTAINING SAFETY.

The proposed new frequencies will be designated as "mobile" so that none of us will know when and where it is safe to fly our models. When the radio signal to an airplane is subjected to interference from another 'too close' signal, control of the model is almost always lost. The result is an uncontrolled crash.

Present radio technology was developed to allow the narrow spacing that we now use - but will not be able to cope with the proposed NARROWER spacing.

Please look into this matter and assist all of us "model builders and flyers" in our effort to stop this "intrusion".

Ron Fikes

93 JAN 21 AM 11:00

18900 Pasadero Dr
Tarzana, CA 91356
January 13, 1993

The Honorable Dianne Feinstein
United States Senate
Washington, D. C. 20510

Dear Madam:

In the attached letter to the FCC I have laid out my objections to a Notice of Proposed Rule Making (NPRM - PR Docket 92-235). This rule would license powerful, mobile radio transmitter frequencies spaced far too closely between the frequencies used by radio control model aircraft. The inevitable result would be loss of control of the models in flight, and their destruction in crashes along with other property damage and injuries. Eventually it would destroy the sport and many small related industries in California.

The sport is important, not only as recreation, but as an educational training ground that has historically supplied most of the aerospace engineers, pilots, mechanics and craftsmen, in the aerospace industry that won the Cold War and provides us our largest remaining favorable trade balance.

Please do what you can to prevent this error.

Sincerely yours,

Charles A. Lindley
Charles A. Lindley, PH D

18900 Pasadero Dr
Tarzana, CA 91356
January 10, 1993

Federal Communications Commission
1919 M St, NW
Washington, DC 20554

Gentlemen:

I am informed that a new radio frequency rule proposal is afoot (NPRM - PR Docket 92-235) that would practically destroy the sport of radio control model airplane flying. This proposal would insert many new frequencies between and only 2.5 kHz away from the individual radio control channels we now use (72 and 75 MHz). These signals would have many times the power we use and would be mobile-based, so they will frequently overpower the weak radio signal controlling the airplane, causing wild maneuvers and an out-of-control crash. We could be "shot down" by radio interference at any time, without warning.

To understand how serious this is, you must realize that radio control model airplanes today are not the stick and tissue paper toys of our own childhood days. Many of them are now built of fiberglass, carbon epoxy, and other space age composites like those used in the "Stealth" bombers and fighters. They are heavy and fast flying, and can be dangerous. Such crashes on a frequent basis would be a danger to lives and property, because some of the models are heavy and fly very fast. This would surely result from insertion of these new frequencies.

The models can also be very expensive, with finished models selling for ~\$500-\$1000 and up; but most are built by individual craftsmen spending a few hundred dollars for materials plus hours of skilled labor that would be worth many thousands if done for pay. The crash of such a model is a personal catastrophe. It would probably destroy the sport.

The sport has a great educational impact on the younger generation. The hobbyists of my generation became the aerospace engineers, the pilots, and the skilled mechanics and craftsmen that won the Cold War. I personally would probably not have gotten my CalTech doctorate and spent forty years in the business but for my discovery of this sport in the 1930's. Most of my colleagues came from the same source. A representative of the next generation of model builders is Burt Rutan, who used composite materials experience from models to design the Voyager ("around the world on one tank of gas"), and now builds the Pegasus space booster and various classified vehicles for the military. Where will the next generation come from, if we destroy the sport?

The economic impact of destroying the sport will also be severe.

The organized members (Academy of Model Aeronautics) are a few hundred thousand, but there are several times that number who aren't members, and will find out too late to speak. There is a large industry, much of it "cottage industry", that supplies these hobbyists with highly specialized supplies and equipment. A number of individuals I know have recently found this a route out of the shrinking Aerospace industry.

Please see that this plan to destroy our frequency use is not implemented. The impact will be much more than just interference between adjoining communication channels. There will be injury, property damage, and a long-term injury to the educational and aerospace infrastructure.

Charles A. Lindley, Ph D

cc:

The Honorable Barbara Boxer
The Honorable Dianne Feinstein
The Honorable Anthony Beilenson

The Honorable **D. Finestein**
United States Senate
Washington, DC 20510

14 January, 1993

1993 JAN 19 AM 7:04

Dear Senator **Finestein**,

I have been involved in model aviation for many years, I am now married with three children, and I have just recently started to teach my children the joys of building and operating radio controlled model airplanes. I have never before seen my children as happy as they were when they completed their first successful solo flight. We are spending many hours of enjoyable quality time together because of these airplanes. I live in the Los Angeles Metropolitan area and on the weekends the model airport is full of people, only one person on a frequency can fly at a time. Two years ago the FCC granted the use of 50 frequencies for radio control use, that one action helped the over-crowding tremendously, but ALL of the old equipment had to be upgraded for the safety of our models and bystanders at a significant personal cost to each modeler.

I am very concerned about the proposed rules that are currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the use ability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.

Our radio control frequencies are in the 72 - 76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control operations. I am told that of the 50 frequencies that are presently available for radio control of model airplanes, only 19 frequencies will be left if these rules are adopted.

When we fly our model airplanes under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

Please understand that many model airplanes have wing spans up to 10 feet and weigh as much as 30 or 40 pounds. The model themselves are expensive to build; but more to the point, they are capable of causing property damage, serious injury, or even death if radio interference causes the operator to lose control of the craft. We often fly our models at organized events and contests where hundreds of operators participate. We

January 15, 1993

93 JAN 21 AM 10:17

The Honorable Dianne Feinstein
United States Senate
Washington D.C. 20510

Dear Senator;

I am President of the San Diego County Association of Model Clubs representing more than 3000 members of the affiliated clubs in the County.

Nearly all of our members fly radio controlled model aircraft.

In 1992 the FCC expanded the number of channels assigned to our hobby/sport but inserted other users (such as pagers, mobile phones, etc.) between our frequencies forcing us to replace all the receivers installed in our aircraft with new ones having a more restricted signal acceptance. This cost hundreds of thousands of dollars in the aggregate for the approximately 200,000 modelers in the United States.

Now the FCC has issued a proposal (NPRM-PR Docket 92-235) that would insert even more users between our frequencies - so close that interference cannot be avoided.

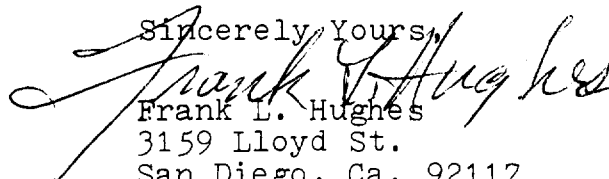
Our models are not toys. Even the most simple primary trainer will cost \$150.00 while the more sophisticated models frequently are valued at several thousand dollars plus the building time that ranges from forty up to 5000 hours.

For most radio users interference is a minor irritation such as noise, static, etc. but to us it means the total destruction, both in time and money, of a very valuable property.

We could function with fewer frequencies (at present we have 50 on the 72 MHz band) but inserting a user only 2.5kHz from every one of ours will be dangerous -- some of our models weigh as much as 55 pounds -- and extremely costly to the modeling community.

I hope you will look into this matter and help us block the implementation of FCC NPRM-PR Docket 92-235 where it adversely affects our activity.

Sincerely Yours,


Frank L. Hughes
3159 Lloyd St.
San Diego, Ca. 92117
A/C619 273-2796


93 JAN 29 AM 11:02

January 25, 1993

The Honorable Diane Feinstein
United States Senate
Washington, DC 20510

Dear Senator Feinstein:

Enclosed is a copy of my letter of January 25, 1993, to the Federal



January 25, 1993

Federal Communications Commission
1919 M St, NW
Washington, DC 20554

Dear Sirs:


I am a retired airline pilot. My hobby, along with thousands of others, is flying radio controlled model airplanes. As a result I have invested a good many dollars for transmitters and receivers used in my hobby.

Your (the FCC) proposed rule making (NPRM-PR Docket 92-235) would, in my opinion, ruin the sport of radio controlled model flying, put thousands of hobby shops in jeopardy of going out of business, and probably bankrupt model radio manufacturers.

Anyone in the vicinity using a one watt transmitter only 2.5 khz away from our frequencies would shoot us out of the air causing thousands of dollars in losses.

It's beyond my comprehension why you bureaucrats can come up with such stupid proposals. I would certainly like an explanation of why you believe this proposal would do no damage to the radio control model airplane industry--or do you care!

Yours very truly,


William J. Samuels

10 Spiros Way
Menlo Park, CA 94025